L8 ANSWER 18 OF 19 MEDLINE on STN
AN 82275342 MEDLINE
DN PubMed ID: 6810382
TI Assay of plasma endogenous **inhibitor**(s) of **prostaglandin synthase** using an enzyme incubation - radioimmunoassay **method**.
AU Brennecke S P; Humphreys J; Turnbull A C; Mitchell M D
SO Prostaglandins, leukotrienes, and medicine, (1982 Jun) Vol. 8, No. 6, pp. 615-34.
Journal code: 8206868. ISSN: 0262-1746.
CY SCOTLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198210
ED Entered STN: 19900317
Last Updated on STN: 19900317
Entered Medline: 19821012

L8 ANSWER 19 OF 19 MEDLINE on STN
AN 79235017 MEDLINE
DN PubMed ID: 466792
TI A new screening system for nonsteroidal anti-inflammatory drugs based upon inhibition of chemiluminescence produced from human cells (granulocytes).
AU Van Dyke K; Van Dyke C; Udeinya J; Brister C; Wilson M
SO Clinical chemistry, (1979 Sep) Vol. 25, No. 9, pp. 1655-61.
Journal code: 9421549. ISSN: 0009-9147.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 197910
ED Entered STN: 19900315
Last Updated on STN: 19900315
Entered Medline: 19791026

=> abs
ABS IS NOT A RECOGNIZED COMMAND
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=> FIL STNGUIDE
COST IN U.S. DOLLARS

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LAST RELOADED: Feb 24, 2006 (20060224/UP).

=> d abs l8 18-19
YOU HAVE REQUESTED DATA FROM FILE 'MEDLINE' - CONTINUE? (Y)/N:y

L8 ANSWER 18 OF 19 MEDLINE on STN

AB A simple, reliable **method** with validations is described for the routine measurement of endogenous **inhibitor**(s) of **prostaglandin synthase** in blood plasma. Appropriate dilutions of plasma samples are incubated with bovine seminal vesicle **prostaglandin synthase**, sodium arachidonate and reduced glutathione. Prostaglandin E2 production is then quantitated by radioimmunoassay. The relative inhibitory potency of plasma samples is determined by comparison of prostaglandin E2 content in sample incubations with that of control incubations containing no plasma dilution. Possible applications and the suitability of this methodological approach are discussed.

L8 ANSWER 19 OF 19 MEDLINE on STN

AB A new screening system for nonsteroidal anti-inflammatory drugs that involves use of human phagocytic cells has been developed in which chemiluminescence measurement is used. Luminol-dependent chemiluminescence is measured after the addition of opsonized (coated with antibodies and complement) zymosan particles to human granulocytic leukocytes in the presence or absence of drugs. Of all the compounds tested, indomethacin was the most potent in blocking chemiluminescence, with measurable inhibitory activity at 5 mumol/L. The order of inhibitory potency at 0.1 mmol/L and in the presence of Ca2+ and Mg2+ was indomethacin greater than sodium salicylate greater than fenoprofen Ca greater than tolmetin greater than naproxen greater than ibuprofen. It is likely that the active compound itself must be added to the system because aspirin did not inhibit chemiluminescence, whereas its metabolite, sodium salicylate, was markedly inhibitory. Dexamethasone and methylprednisolone also did not inhibit chemiluminescence. The drugs that inhibit chemiluminescence are also known **inhibitors** of **prostaglandin synthase** (cyclooxygenase portion).